Drools Documentation

Part of Packt's cookbook series, this book is packed with easy to follow recipes containing step-by-step instructions. The book is designed in such a way that you can read it chapter by chapter, or refer to the tasks in no particular order. This book is for Drools developers who want to improve their current working methods and discover new features to apply to their projects. Readers are expected to be familiar with the basics of the Drools platform as well as Java.

This book constitutes the refereed proceedings of the 12th Asian Symposium on Programming Languages and Systems, APLAS 2014, held in Singapore, Singapore in November 2014. The 20 regular papers presented together with the abstracts of 3 invited talks were carefully reviewed and selected from 57 submissions. The papers cover a variety of foundational and practical issues in programming languages and systems - ranging from foundational to practical issues. The papers focus on topics such as semantics, logics, foundational theory; design of languages, type systems and foundational calculi; domain-specific languages; compilers, interpreters, abstract machines; program derivation, synthesis and transformation; program analysis, verification, model-checking; logic, constraint, probabilistic and quantum programming; software security; concurrency and parallelism; as well as tools and environments for programming and implementation.

This book constitutes the refereed proceedings of the ACM/IFIP/USENIX 12th International Middleware Conference, held in Lisbon, Portugal, in December 2011. The 22 revised full papers presented together with 2 industry papers and an invited paper were carefully reviewed and selected from 125 submissions. The papers are organized in topical sections on social networks, storage and performance management, green computing and resource management, notification and streaming, replication and caching, security and interoperability, and run-time (re)configuration and inspection.

This book presents an overview of the latest artificial intelligence systems and methods, which have a broad spectrum of effective and sometimes unexpected applications in medical, educational and other fields of sciences and technology. In digital artificial intelligence systems, scientists endeavor to reproduce the innate intellectual abilities of human and other organisms, and the in-depth study of genetic systems and inherited biological processes can provide new approaches to create more and more effective artificial intelligence methods. The book focuses on the intensive development of bio-mathematical studies on living organism patents, which ensure the noise immunity of genetic information, its quasi-holographic features, and its connection with the Boolean algebra of logic used in technical artificial intelligence systems. In other words, the study of genetic systems and creation of methods of artificial intelligence go hand in hand, mutually enriching enrich each other. These proceedings comprise refereed papers presented at the 1st International Conference of Artificial Intelligence, Medical Engineering, and Education (AIMEE2017), held at the Mechanical Engineering Institute of the Russian Academy of Sciences, Moscow, Russia on 21–23 August 2017. The topics discussed include advances in thematic mathematics and bio-mathematics; advances in thematica medical approaches; and advances in thematic technological and educational approaches. The book is a compilation of state-of-the-art papers in the field, covering a comprehensive range of subjects that are relevant to business managers and engineering professionals alike. The breadth and depth of these proceedings make them an excellent resource for asset management practitioners, researchers and academics, as well as undergraduate and postgraduate students interested in artificial intelligence and bioinformatics systems as well as their growing applications

6th International Conference, ICGT 2012, Bremen, Germany, September 24-29, 2012, Proceedings

Strategic E-Commerce Systems and Tools for Competing in the Digital Marketplace

European Conference, EuroISI 2008, Esbjerg, Denmark, December 3-5, 2008. Proceedings

7th International Conference, IESS 2016, Bucharest, Romania, May 25-27, 2016, Proceedings

Large Print Edition

Experience the Evolution of Java EE

Middleware 2011

This book constitutes the proceedings of the Third International Conference on Technologies and Innovation, CITI 2017, held in Guayaquil, Ecuador, in October 2017. The 24 papers presented in this volume were carefully reviewed and selected from 68 submissions. They were organized in topical sections named: cloud and mobile computing; knowledge based and expert systems; applications in healthcare and wellness; e-learning; and ICT in agronomy.

This book constitutes the refereed proceedings of the 19th International Conference on Advanced Information Systems Engineering, CAiSE 2007, held in Trondheim, Norway in June 2007. It covers ontologies, extended enterprises, information integration, service-oriented architecture, strategic alignment, requirements, process modeling, method engineering, novel applications, participative modeling, and process-aware information systems.

Cloud computing has experienced explosive growth and is expected to continue to rise in popularity as new services and applications become available. As with any new technology, security issues continue to be a concern, and developing effective methods to protect sensitive information and data on the cloud is imperative. Cloud Security: Concepts, Methodologies, Tools, and Applications explores the difficulties and challenges of securing user data and information on cloud platforms. It also examines the current approaches to cloud-based technologies and assesses the possibilities for future advancements in this field. Highlighting a range of topics such as cloud forensics, information privacy, and standardization and security in the cloud, this multi-volume book is ideally designed for IT specialists, web designers, computer engineers, software developers, academicians, researchers, and graduate-level students interested in cloud computing concepts and security.

This two volume set LNCS 10438 and LNCS 10439 constitutes the refereed proceedings of the 28th International Conference on Database and Expert Systems Applications, DEXA 2017, held in Lyon, France, August 2017. The 37 revised full papers presented together with 40 short papers were carefully reviewed and selected from 166 submissions. The papers discuss a range of topics including: Semantic Web and Semantics; Graph Matching; Data Modeling, Data Abstraction, and Uncertainty; Preferences and Query Optimization; Data Integration and RDF Matching; Security and Privacy; Web Search; Data Clustering; Top-K and Skyline Queries; Data Mining and Big Data; Service Computing; Continuous and Temporal Data, and Continuous Query Language; Text Processing and Semantic Search; Indexing and Concurrency Control Methods; Data Warehouse and Data Stream Warehouse; Data Mining and Machine Learning; Recommender Systems and Query Recommendation; Graph Algorithms; Semantic Clustering and Data Classific ation.

19th International Conference, CAiSE 2007, Trondheim, Norway, June 11-15, 2007, Proceedings

Service Level Agreements for Cloud Computing

4th IFIP WG 11.2 International Workshop, WISTP 2010, Passau, Germany, April 12-14, 2010, Proceedings

Advanced Information Systems Engineering

Executable business processes in BPMN 2.0

Seam Framework

Enterprise, Business-Process and Information Systems Modeling

This book constitutes the refereed proceedings of the 7th International Conference on Exploring Service Science (IESS), held in Bucharest, Romania, in May 2016.Service science constitutes an interdisciplinary approach to systematic innovation in service systems, integrating managerial, social, legal, and engineering aspects to address the theoretical and practical challenges of the service industry and its economy. The 45 full papers and 13 short papers accepted for IESS were selected from 119 submissions. The papers consider the topics service exploration theories and processes; modeling service requirements and management of business processes; value co-creation through knowledge management and user-centric services; service design methodologies and patterns; service innovation and strategy; IT-based service engineering; servitization in sustainable manufacturing; product-service systems; business software services and data-driven service design; web service design and service-oriented agents; IoT and mobile apps for public transport service management; e-health services and medical data interoperability; and service and IT-oriented learning and education systems.

As financial systems migrate to a pervasive, online environment, business leaders and layman investors alike must adapt to changes in the market brought about by this new age of business. Strategic E-Commerce Systems and Tools for Competing in the Digital Marketplace advances the body of knowledge on electronic business and commerce with an in-depth look at the opportunities and concerns surrounding online business and finance. This cutting-edge reference aids business leaders, financial managers, investors, and consumers looking to build their portfolios and thrive in modern digital business environments.

Summary Activiti in Action is a comprehensive tutorial designed to introduce developers to the world of business process modeling using Activiti. Before diving into the nuts and bolts of Activiti, this book presents a solid introduction to BPMN 2.0 from a developer's perspective. About the Technology Activiti streamlines the implementation of your business processes: with Activiti Designer you draw your business process using BPMN. Its XML output goes to the Activiti Engine which then creates the web forms and performs the communications that implement your process. It's as simple as that. Activiti is lightweight, integrates seamlessly with standard frameworks, and includes easy-to-use design and management tools. About the Book Activiti in Action introduces developers to business process modeling with Activiti. You'll start by exploring BPMN 2.0 from a developer's perspective. Then, you'll quickly move to examples that show you how to implement processes with Activiti. You'll dive into key areas of process modeling, including workflow, ESB usage, process monitoring, event handling, business rule engines, and document management integration. Written for business application developers. Familiarity with Java and BPMN is helpful but not required. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book. What's Inside Activiti from the ground up Dozens of real-world examples Integrate with standard Java tooling Table of Contents PART 1 INTRODUCING BPMN 2.0 AND ACTIVITI Introducing the Activiti framework BPMN 2.0: what's in it for developers? Introducing the Activiti tool stack Working with the Activiti process engine PART 2 IMPLEMENTING BPMN 2.0 PROCESSES WITH ACTIVITI Implementing a BPMN 2.0 process Applying advanced BPMN 2.0 and extensions Dealing with error handling Deploying and configuring the Activiti Engine Exploring additional Activiti modules PART 3 ENHANCING BPMN 2.0 PROCESSES Implementing advanced workflow Integrating services with a BPMN 2.0 process Ruling the business rule engine Document management using Alfresco Business monitoring and Activiti PART 4 MANAGING BPMN 2.0 PROCESSES? Managing the Activiti Engine

"This book provides a comprehensive collection of state-of-the-art advancements in rule languages"--Provided by publisher.

Advances in Computational Intelligence

17th Conference of the Spanish Association for Artificial Intelligence, CAEPIA 2016, Salamanca, Spain, September 14-16, 2016. Proceedings

Software architecture documentation in practice

Exploring Services Science

Recent Advances in Computational Intelligence in Defense and Security

Format-Agnostic Media

Handbook of Research on Emerging Rule-Based Languages and Technologies: Open Solutions and Approaches

Presents current trends and potential future developments by leading researchers in immersive media production, delivery, rendering and interaction The underlying audio and video processing technology that is discussed in the book relates to areas such as 3D object extraction, audio event detection; 3D sound rendering and face detection, gesture analysis and tracking using video and depth information. The book will give an insight into current trends and developments of future media production, delivery and reproduction. Consideration of the complete production, processing and distribution chain will allow for a full picture to be presented to the reader. Production developments covered will include integrated workflows developed by researchers and industry practitioners as well as capture of ultra-high resolution panoramic video and 3D object based audio across a range of programme genres. Distribution developments will include script based format agnostic network delivery to a full range of devices from large scale public panoramic displays with wavefield synthesis and ambisonic audio reproduction to ⊡small screen⊡ mobile devices. Key developments at the consumer end of the chain apply to both passive and interactive viewing modes and will incorporate user interfaces such as gesture recognition and ⊡second screen⊡ devices to allow manipulation of the audio visual content. Presents current trends and potential future developments by leading researchers in immersive media production, delivery, rendering and interaction. Considers the complete production, processing and distribution chain illustrating the dependencies and the relationship between different components. Proposes that a format-agnostic approach to the production and delivery of broadcast programmes will overcome the problems faced with the steadily growing number of production and delivery formats. Explains the fundamentals of media production in addition to the complete production chain, beyond current-state-of-the-art through to presenting novel approaches and technologies for future media production. Focuses on the technologies that will allow for the realization of an E2E media platform that supports flexible content representations and interactivity for users. An essential read for Researchers and developers of audio-visual technology in industry and academia, such as engineers in broadcast technology companies and students working toward a career in the rapidly changing area of broadcast both from a production and an engineering perspective.

This book constitutes the refereed proceedings of the 16th Conference of the Spanish Association for Artificial Intelligence, CAEPIA 2016, held in Salamanca, Spain, in September 2016. The 47 revised full papers presented were carefully selected from 166 submissions. Apart from the presentation of technical full papers, the scientific program of CAEPIA 2016 included an App contest, a Doctoral Consortium and, as a follow-up to the success achieved in previously CAEPIA editions, a special session on outstanding recent papers (Key Works) already published in renowned journals or forums.

This book constitutes the proceedings of the 6th International Conference on Graph Transformations, ICGT 2012, held in Bremen, Germany, in September 2012. The 30 papers and 3 invited papers presented were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on behavioural analysis, high-level graph transformation, revisited approaches, general transformation models, structuring and verification, graph transformations in use, (meta-)model evolution and incremental approaches.

High-altitude pseudo-satellites currently require large crews of highly trained personnel. In order for these platforms to become commercially viable, it is imperative that mission-level tasks are automated in a mission management system, while maintaining flight safety. The new method of behavior trees is investigated for this purpose and extended with proper initialization, continuous-time processing, and modular stateful tasks. The approach is implemented in the Modelica environment and evaluated in a complex mission Simulation.

EuroPLoP 2009 Proceedings

Database and Expert Systems Applications

Activiti in Action

Bonita Open Solution 5.x Essentials

Behavior Trees for Mission Management of High-Altitude Pseudo-Satellites

Programming Languages and Systems

Open Source SOA

These transactions publish research in computer-based methods of computational collective intelligence (CCI) and their applications in a wide range of fields such as the semantic web, social networks, and multi-agent systems. TCCI strives to cover new methodological, theoretical and practical aspects of CCI understood as the form of intelligence that emerges from the collaboration and competition of many individuals (artificial and/or natural). The application of multiple computational intelligence technologies, such as fuzzy systems, evolutionary computation, neural systems, consensus theory, etc., aims to support human and other collective intelligence and to create new forms of CCI in natural and/or artificial systems. This eleventh issue contains 9 carefully selected and thoroughly revised contributions.

Document the architecture of your software easily with this highly practical, open-source template. Key Features Get to grips with leveraging the features of arc42 to create insightful documents Learn the concepts of software architecture documentation through real-world examples Discover techniques to create compact, helpful, and easy-to-read documentation Book Description When developers document the architecture of their systems, they often invent their own specific ways of articulating structures, designs, concepts, and decisions. What they need is a template that enables simple and efficient software architecture documentation. arc42 by Example shows how it's done through several real-world examples. Each example in the book, whether it is a chess engine, a huge CRM system, or a cool web system, starts with a brief description of the problem domain and the quality requirements. Then, you'll discover the system context with all the external interfaces. You'll dive into an overview of the solution strategy to implement the building blocks and runtime scenarios. The later chapters also explain various cross-cutting concerns and how they affect other aspects of a program. What you will learn Utilize arc42 to document a system's physical infrastructure Learn how to identify a system's scope and boundaries Break a system down into building blocks and illustrate the relationships between them Discover how to describe the runtime behavior of a system Know how to document design decisions and their reasons Explore the risks and technical debt of your system Who this book is for This book is for software developers and solutions architects who are looking for an easy, open-source tool to document their systems. It is a useful reference for those who are already using arc42. If you are new to arc42, this book is a great learning resource. For those of you who want to write better technical documentation will benefit from the general concepts covered in this book.

Fully Updated to Cover Major Enhancements to Seam 2.x In Seam Framework, Second Edition, the authors of the leading guide to Seam programming have systematically updated their text to reflect the major improvements introduced with Seam 2.x. This author team—all key Seam project contributors—teach Seam 2.x through detailed example applications that reveal how Seam simplifies many tasks that were previously difficult or impractical. Their robust descriptions are complemented by in-depth feature discussions that demonstrate how to use Seam's power to the fullest. Whether you're new to Seam programming or a seasoned Seam developer who wants to achieve deeper mastery of Seam 2.x, this book will be an indispensable resource. Coverage includes Using improvements to Seam's conversation model, transaction management, and other features Enhancing security,

performing end-to-end validation, and providing custom exception pages Using Quartz to execute timer jobs in your application Generating bookmarkable RESTful Web pages the easy way Developing highly scalable applications with Seam 2.x's new multilayer caching Simplifying development with Groovy, the scripting language that runs directly on the JVM Using jBPM business processes to improve page flow Previewing Web Beans (JSR-299), the future core of Seam that will transform Java EE Web development *Download source code for this book's case study application at solutionsfit.com/seam.

Service Level Agreements for Cloud Computing provides a unique combination of business-driven application scenarios and advanced research in the area of service-level agreements for Clouds and service-oriented infrastructures. Current state-of-the-art research findings are presented in this book, as well as business-ready solutions applicable to Cloud infrastructures or ERP (Enterprise Resource Planning) environments. Service Level Agreements for Cloud Computing contributes to the various levels of service-level management from the infrastructure over the software to the business layer, including horizontal aspects like service monitoring. This book provides readers with essential information on how to deploy and manage Cloud infrastructures. Case studies are presented at the end of most chapters. Service Level Agreements for Cloud Computing is designed as a reference book for high-end practitioners working in cloud computing, distributed systems and IT services. Advanced-level students focused on computer science will also find this book valuable as a secondary text book or reference.

Workshops of ESOCC 2014, Manchester, UK, September 2-4, 2014, Revised Selected Papers

Coordination, Organizations, Institutions, and Norms in Agent Systems VI

Theory and Practice of Model Transformations

Drools Developer's Cookbook

ACM/IFIP/USENIX 12th International Middleware Conference, Lisbon, Portugal, December 12-16, 2011, Proceedings

Technologies and Innovation

Second International Conference, ICMT 2009, Zürich, Switzerland, June 29-30, 2009, Proceedings

This book includes a selection of articles from the 2018 International Conference on Information Technology & Systems (ICITS 18), held on January 10 – 12, 2018, at the Universidad Estatal Península de Santa Elena, Libertad City, Ecuador. ICIST is a global forum for researchers and practitioners to present and discuss recent findings and innovations, current trends, lessons learned and the challenges of modern information technology and systems research, together with their technological development and applications. The main topics covered include information and knowledge management; organizational models and information systems; software and systems modeling; software systems, architectures, applications and tools; multimedia systems and applications; computer networks, mobility and pervasive systems; intelligent and decision support systems; big data analytics and applications; human—computer interaction; ethics, computers & security; health informatics; and information technologies in education.

JBoss Seam is an exciting new application framework based on the Java EE platform that is used to build rich, web-based business applications. Seam is rapidly capturing the interest of Java enterprise developers because of its focus on simplicity, ease of use, transparent integration, and scalability. Seam in Action offers a practical and in-depth look at JBoss Seam. The book puts Seam head-to-head with the complexities in the Java EE architecture. The author presents an unbiased view of Seam from outside the walls of RedHat/JBoss, focusing on such topics as Spring integration and deployment to alternative application servers to steer clear of vendor lock-in. By the end of the book, you should expect to not only gain a deep understanding of Seam, but also come away with the confidence to teach the material to others. To start off, you will see a working Java EE-compliant application come together by the end of the second chapter. As you progress through the book, you will discover how Seam eliminates unnecessary layers and configurations, solves the most common JSF pain points, and establishes the missing link between JSF, EJB 3 and JavaBean components. The author also shows you how Seam opens doors for you to incorporate technologies you previously have not had time to learn, such as business processes and stateful page flows (jBPM), Ajax remoting, PDF generation, asynchronous tasks, and more. All too often, developers spend a majority of their time integrating disparate technologies, manually tracking state, struggling to understand JSF, wrestling with Hibernate exceptions, and constantly redeploying applications, rather than on the logic pertaining to the business at hand. Seam in Action dives deep into thorough explanations of how Seam eliminates these non-core tasks by leveraging configuration by exception, Java 5 annotations, and aspect-oriented programming. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book. Discover the power of Drools 6 and Business Rules for developing complex scenarios in your applications About This Book Implement and model different rules using the DRL full syntax Model complex business decisions and domain models in order to automate and improve your operational decisions with the Drools framework A practical, fast-paced, hands-on guide to help you use the different components provided by the Drools Rule Engine Who This Book Is For This book is for Java developers and architects who need to have a deep understanding of how to create or integrate your applications with the Drools Rules Framework. The book assumes that you know the Java language well and also have experience with some widely used frameworks, such as Spring. You should also know the basics of Maven-based applications. What You Will Learn Automate your application's decision, such as promotion applying, discount policies, fraud detection, and more. Quickly get started with writing your first rules using the DRL full syntax. Discover the power of the new syntax components of the rule language. Define inferences in your business rules to simplify complex decisions. Write decision tables, templates,domain-specific languages, and scorecards, and learn how to map them to the Drools framework. Harness the full operational power of Drools through all of its configuration points. Use Drools configurations and architectures for different environments and scenarios. In Detail Mastering JBoss Drools 6 will provide you with the knowledge to develop applications involving complex scenarios. You will learn how to use KIE modules to create and execute Business Rules, and how the PHREAK algorithm internally works to drive the Rule Engine decisions. This book will also cover the relationship between Drools and jBPM, which allows you to enrich your applications by using Business Processes. You will be briefly introduced to the concept of complex event processing (Drools CEP) where you will learn how to aggregate and correlate your data based on temporal conditions. You will also learn how to define rules using domain-specific languages, such as spreadsheets, database entries, PMML, and more. Towards the end, this book will take you through the integration of Drools with the Spring and Camel frameworks for more complex applications. Style and approach Approached from a developer's perspective, the book teaches you all the advanced concepts of Business Rules applicable examples with helpful screenshots, diagrams, tutorials, and examples.

You can build a world-class SOA infrastructure entirely using popular, andmature, open-source applications. Unfortunately, the technical documentationfor most open-source projects focuses on a specific product, the big SOA picture.You're left to your own devices to figure out how to cobble together a fullsolution from the various bits. In other words, unless you already know howMule and Tuscany work with jBPM, you're stuck. Open Source SOA shows readers how to build an entire SOA application usingopen-source technologies. It shows readers how to apply key ideas like EnterpriseService Bus (ESB) design and Business Process Management (BPM) and learnthe tools and techniques to implement them effectively. To pull everything together, the author describes real-life case studies from hisown work to tie together all the principles and practices. These hard-to-find casestudies are pure gold for the reader, as most developers keep these trade secretsto themselves. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book.

Advances in Artificial Intelligence

Enterprise Interoperability IV

Spatial Awareness of Autonomous Embedded Systems

Web Technologies: Concepts, Methodologies, Tools, and Applications

28th International Conference, DEXA 2017, Lyon, France, August 28-31, 2017, Proceedings, Part II

Seam in Action

Intelligent Computing

A practical, intuitive guide for modeling complex business processes as full-scale applications using the ease and power of Bonita Open Solution.If you are a business application developer looking forward to model business processes intuitively in a workflow, with various conditions and transitions then this book is for you. Basic knowledge of Java or Groovy is necessary to help you develop these applications. Knowledge of HTML and JavaScript/JQuery will be helpful but not mandatory.

This book constitutes the thoroughly reviewed joint postprocessings of two international workshops on Coordination, Organization, Institutions and Norms in Agent Systems, COIN@AAMAS 2010, held in Toronto, Canada in May 2010 and COIN@MALLOW 2010, held in Lyon, France in August 2010. The 20 revised full papers presented went through several rounds of reviewing and revision and were carefully selected for presentations. The papers are organized in topical sections on normative systems design and modeling; social aspects; and norms at runtime: learning and enforcing.

With the technological advancement of mobile devices, social networking, and electronic services, Web technologies continues to play an ever-growing part of the global way of life, incorporated into cultural, economical, and organizational levels. Web Technologies: Concepts, Methodologies, Tools, and Applications (4 Volume) provides a comprehensive depiction of current and future trends in support of the evolution of Web information systems, Web applications, and the Internet. Through coverage of the latest models, concepts, and architectures, this multiple-volume reference supplies audiences with an authoritative source of information and direction for the further development of the Internet and Web-based phenomena.

Enterprise Interoperability is the ability of an enterprise or organisation to work with other enterprises or organisations without special effort. It is now recognised that interoperability of systems and thus sharing of information is not sufficient to ensure common understanding between enterprises. Knowledge of information meaning and understanding of how is to be used must also be shared if decision makers distributed between those enterprises in the network want to act consistently and efficiently. Industry's need for Enterprise Interoperability has been one of the significant drivers for research into the Internet of the Future. EI research will embrace and extend contributions from the Internet of Things and the Internet of Services, and will go on to drive the future needs for Internets of People, Processes, and Knowledge.

15th Mexican International Conference on Artificial Intelligence, MICAI 2016, Cancún, Mexico, October 23-28, 2016, Proceedings, Part I

arc42 by Example

Advances in Artificial Systems for Medicine and Education

Proceedings of the 2019 Computing Conference, Volume 2

Mastering JBoss Drools 6

Mastering jBPM6

Information Security Theory and Practices: Security and Privacy of Pervasive Systems and Smart Devices

This volume constitutes the proceedings of the First European Conference on Intelligence and Security Informatics, EuroISI 2008, held in Esbjerg Denmark, December 3–5, 2008. Intelligence and security informatics (ISI) is a multidisciplinary ?eld enc- passing methodologies, models, algorithms, and advanced tools for intelligence analysis, homeland security, terrorism research as well as security-related public policies. EuroISI 2008 was the ?rst European edition of the series of ISI sym- siums that have been held annually in the USA since 2003, and more recently in Asia. These meetings gather together people from previously disparate c- munities to provide a stimulating forum for the exchange of ideas and results. Participantshave included academic researchers(especially in the ?elds of inf- mation technologies, computer science, public policy, and social and behavioral studies), law enforcement and intelligence experts, as well as information te- nology companies, industry consultants and practitioners in the relevant ?elds. These proceedings contain 25 originalpapers, out of 48 submissions received, related to the topics of intelligence and security informatics. The papers cover a broad range of ?elds such as: social network analysis, knowledge discovery, web-based intelligence and analysis, privacy protection, access control, digital rights management, malware and intrusion detection, surveillance, crisis m- agement,andcomputationalintelligence,amongothers.Additionallytothemain conference, a poster section was organized.

Constraint Handling Rules (CHR) is both a theoretical formalism and a practical programming language. This book provides an overview of CHR research based on a reviewed selection of doctoral theses. After a basic introduction to CHR, the book presents results from three different areas of CHR research: compilation and optimization, execution strategies, and program analysis. The chapters offer in-depth treatises of selected subjects, supported by a wealth of examples. The book is ideal for master students, lecturers, and researchers.

Clemens Holzmann investigates the role of spatial contexts for autonomous embedded systems. The author presents concepts for recognizing, representing, and reasoning about qualitative spatial relations and their changes over time, as well as an appropriate architecture which has prototypically been implemented in a flexible software framework. His results show that the proposed concepts are suitable for developing spatially aware applications and that qualitatively abstracted relations can constitute an adequate basis for this purpose.

Models have become essential for supporting the development, analysis and e- lution of large-scale and complex IT systems. Models allow di?erent views, p- spectives and elements of a system to be captured rigorously and precisely, thus allowing automated tools to manipulate and manage the models. In a full-?edged model-driven engineering (MDE) process, the transformations developed and - pressed between models are also key. Model transformations allow the de?nition and implementation of the operations on models, and also provide a chain that enables the automated development of a system from its corresponding m- els. Model transformations are already an integral part of any model-driven approach, and there are a number of available model transformation languages, tools, and supporting environments; some of these approaches are now approa- ing maturity. Nevertheless, much work remains: the research community and industry need to better understand the foundations and implications of model transformations, such as the key concepts and operators supporting transfor- tion languages, their semantics, and their structuring mechanisms and properties (e. g. , modularity, composability and parametrization). The e?ect of using model transformations on organizations and development processes — particularly when applied to ultra-large scale systems, or in distributed enterprises — is still not clear. These issues, and others related to the speci?cation, design, implemen- tion, analysis and experimentation with model transformation, are the focus of these proceedings. The Second International Conference on Model Transformation (ICMT 2009) was held in late June 2009 in Zurich, Switzerland.

16th International Conference, BPMDS 2015, 20th International Conference, EMMSAD 2015, Held at CAiSE 2015, Stockholm, Sweden, June 8-9, 2015, Proceedings

Cloud Security: Concepts, Methodologies, Tools, and Applications

12th Asian Symposium, APLAS 2014, Singapore, Singapore, November 17-19, 2014, Proceedings

Proceedings of the International Conference on Information Technology & Systems (ICITS 2018)

Third International Conference, CITI 2017, Guayaquil, Ecuador, October 24-27, 2017, Proceedings

Media Production, Delivery and Interaction for Platform Independent Systems

Open Solutions and Approaches

This book presents the proceedings of the Computing Conference 2019, providing a comprehensive collection of chapters focusing on core areas of computing and their real-world applications. Computing is an extremely broad discipline, encompassing a range of specialized fields, each focusing on particular areas of technology and types of application, and the conference offered pioneering researchers, scientists, industrial engineers, and students from around the globe a platform to share new ideas and development experiences. Providing state-of-the-art intelligent methods and techniques for solving real- world problems, the book inspires further research and technological advances in this important area.

The two-volume set LNAI 10061 and 10062 constitutes the proceedings of the 15th Mexican International Conference on Artificial Intelligence, MICAI 2016, held in Cancún, Mexico, in October 2016. The total of 86 papers presented in these two volumes was carefully reviewed and selected from 238 submissions. The contributions were organized in the following topical sections: Part I: natural language processing; social networks and opinion mining; fuzzy logic; time series analysis and forecasting; planning and scheduling; image processing and computer vision; robotics. Part II: general; reasoning and multi-agent systems; neural networks and deep learning; evolutionary algorithms; machine learning; classification and clustering; optimization; data mining; graph-based algorithms; and intelligent learning environments.

This volume is an initiative undertaken by the IEEE Computational Intelligence Society's Task Force on Security, Surveillance and Defense to consolidate and disseminate the role of CI techniques in the design, development and deployment of security and defense solutions. Applications range from the detection of buried explosive hazards in a battlefield to the control of unmanned underwater vehicles, the delivery of superior video analytics for protecting critical infrastructures or the development of stronger intrusion detection systems and the design of military surveillance networks. Defense scientists, industry experts, academicians and practitioners alike will all benefit from the wide spectrum of successful applications compiled in this volume. Senior undergraduate or graduate students may also discover uncharted territory for their own research endeavors.

This volume constitutes the refereed proceedings of the 4th IFIP WG 11.2 International Workshop on Information Security Theory and Practices: Security and Privacy of Pervasive Systems and Smart Devices, WISTP 2010, held in Passau, Germany, in April 2010. The 20 revised full papers and 10 short papers were carefully reviewed and selected from 69 submissions. They are organized in topical sections on embedded security, protocols, highly constrained embedded systems, security, smart card security, algorithms, hardware implementations, embedded systems and anonymity/database security.

COIN 2010 International Workshops, COIN@AAMAS 2010, Toronto, Canada, May 2010, COIN@MALLOW 2010, Lyon, France, August 2010, Revised Selected Papers

Graph Transformation

Intelligence and Security Informatics

Making the Internet of the Future for the Future of Enterprise

Advances in Service-Oriented and Cloud Computing

Concepts, Methodologies, Tools, and Applications

Transactions on Computational Collective Intelligence XI

This volume contains the technical papers presented in the four high-quality workshops associated with the European Conference on Service-Oriented and Cloud Computing, ESOCC 2014, held in Manchester, UK, in September 2014: 4th International Workshop on Adaptive Services for the Future Internet, WAS4FI 2014, 2nd International Workshop on Cloud for IoT, CLIoT 2014, 2nd International Workshop on Cloud Service Brokerage, CSB 2014, and Seamless Adaptive Multi-cloud Management of Service-based Applications, SeaCloudS Workshop. The 19 revised full papers and 3 short papers were carefully reviewed and selected from 39 submissions. They focus on specific topics in service-oriented and cloud computing domains as cloud computing, service buses, Web services, service-oriented architectures, event-driven architectures, enterprise architectures, business process management, software selection and adaptation.

This book contains the refereed proceedings of the 16th International Conference on Business Process Modeling, Development and Support, BPMDS 2015, and the 20th International Conference on Exploring Modeling Methods for Systems Analysis and Design, EMMSAD 2015, held together with the 27th International Conference on Advanced Information Systems Engineering (CAiSE 2015) in Stockholm, Sweden, in June 2015. The 17 full papers accepted for BPMDS were selected from 43 submissions and cover a wide spectrum of issues related to business process development, modeling, and support. They are grouped into topical sections on enabling value creation, human-centric paradigms, mining for processes, declarative approaches, understanding and sharing, quality and security issues, and new areas for BPMDS. The 12 full and three short papers accepted for EMMSAD were chosen from 33 submissions and focus on exploring, evaluating, and enhancing modeling methods and methodologies for the analysis and design of information systems, enterprises, and business processes. They are grouped into topical sections on fundamental issues in modeling, requirements and regulations, enterprise and software ecosystem modeling, information and process model quality, meta-modeling and domain-specific modeling and model composition, modeling of architecture and design, and novel applications of modeling.

This book provides a complete understanding of the jBPM technology stack. It starts with an introduction to the world of business process management systems, the problem domain addressed by jBPM, explores the main use cases that can be addressed by business process management systems, and illustrates the main design patterns. It takes you through the details of the architecture and available out-of-the-box provisions for customizing, extending, and integrating the features of jBPM to meet the requirements of your application. Moreover, this book will empower you with the knowledge to integrate jBPM with enterprise architecture, debug through the source code of jBPM, and utilize the flexibility provided by a heavily modular system. Finally, it introduces you to the provisions available for a jBPM-based application to put the non-functional characteristics of the system, which are of great importance when we deploy our application in production. The book helps you in putting the knowledge at work by providing you with a lot of ready to use examples, both basic and advanced ones.

Constraint Handling Rules - Compilation, Execution, and Analysis